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**Mehta et al.**(10) **Pub. No.: US 2021/0208156 A1**(43) **Pub. Date: Jul. 8, 2021**(54) **GLYCAN ANALYSIS OF PROTEINS AND CELLS**(71) Applicants: **MUSC Foundation for Research Development**, Charleston, SC (US);  
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CPC ..... **G01N 33/6848** (2013.01); **G01N 2570/00** (2013.01); **G01N 2440/38** (2013.01)(57) **ABSTRACT**

The present invention provides methods and compositions for glycan analysis of complex solutions, including proteins and cells in a biological sample. The method includes the preparation of substrates for the capture of proteins and cells for multiplexed analysis. Cells and proteins may be captured by antibody arrays, culture, or direct deposition. The invention further relates to the use of protein and cell glycan analysis in the diagnosis and screening of disease states and disease progression.

